

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/784,295
Source: IFWB
Date Processed by STIC: 10-25-04

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IFWO

RAW SEQUENCE LISTING

DATE: 10/25/2004

PATENT APPLICATION: US/10/784,295

TIME: 16:19:31

Input Set : A:\27557 Sequence Listing.txt

Output Set: N:\CRF4\10252004\J784295.raw

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3 <110> APPLICANT: Shaaltiel, Yoseph
5 <120> TITLE OF INVENTION: CELL/TISSUE CULTURING DEVICE, SYSTEM AND METHOD
7 <130> FILE REFERENCE: 27557
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/784,295
C--> 9 <141> CURRENT FILING DATE: 2004-02-24
9 <160> NUMBER OF SEQ ID NOS: 14
11 <170> SOFTWARE: PatentIn version 3.2
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 22
15 <212> TYPE: PRT
16 <213> ORGANISM: Artificial sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: Signal Peptide for the ER
21 <400> SEQUENCE: 1
23 Met Lys Thr Asn Leu Phe Leu Phe Leu Ile Phe Ser Leu Leu Leu Ser
24 1          5          10          15
27 Leu Ser Ser Ala Glu Phe
28          20
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 7
33 <212> TYPE: PRT
34 <213> ORGANISM: Artificial sequence
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Vacuolar targeting signal from Tobacco chitinase A
39 <400> SEQUENCE: 2
41 Asp Leu Leu Val Asp Thr Met
42 1          5
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 21
47 <212> TYPE: DNA
48 <213> ORGANISM: Artificial sequence
50 <220> FEATURE:
51 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
53 <400> SEQUENCE: 3
54 cagaattcgc ccgcccctgc a
57 <210> SEQ ID NO: 4
58 <211> LENGTH: 22
59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial sequence
62 <220> FEATURE:
63 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
65 <400> SEQUENCE: 4
66 ctcagatctt ggcgatgcca ca

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69 <210> SEQ ID NO: 5
70 <211> LENGTH: 19
71 <212> TYPE: DNA
72 <213> ORGANISM: Artificial sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
77 <400> SEQUENCE: 5
78 ctcagaagac cagagggct 19
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 17
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
89 <400> SEQUENCE: 6
90 caaagcggcc atcgtgc 17
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 1491
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapiens
98 <400> SEQUENCE: 7
99 gcccgccct gcaccctaa aagcttcggc tacagctcgg tgggtgtgtgt ctgcaatgcc 60
101 acatactgtg actcctttga cccccgacc tttcctgccc ttggtacctt cagccgctat 120
103 gagagtacac gcagtgggcg acggatggag ctgagtatgg ggcccatcca ggctaatac 180
105 acgggcacag gcctgctact gaccctgcag ccagaacaga agttccagaa agtgaaggga 240
107 tttggagggg ccatgacaga tgctgctgct ctcaacatcc ttgccctgtc acccctgcc 300
109 caaaatttgc tacttaaate gtacttctct gaagaaggaa tcggatataa catcatccgg 360
111 gtacccatgg ccagctgtga cttctccatc cgcacctaca cctatgcaga caccctgat 420
113 gatttccagt tgcacaactt cagcctccca gaggaagata ccaagctcaa gataccctg 480
115 attcaccgag ccctgcagtt ggcccagcgt cccgtttcac tccttgccag cccctggaca 540
117 tcacccactt ggctcaagac caatggagcg gtgaatggga aggggtcact caagggacag 600
119 cccggagaca tctaccacca gacctgggcc agatactttg tgaagtccct ggatgcctat 660
121 gctgagcaca agttacagtt ctgggcagtg acagctgaaa atgagccttc tgctgggctg 720
123 ttgagtggat accccttcca gtgcctgggc ttcaccctg aacatcagcg agacttcatt 780
125 gcccgtagac taggtcctac cctcgccaac agtactcacc acaatgtccg cctactcatg 840
127 ctggatgacc aacgcttgct gctgcccac tgggcaaagg tggtagtgac agaccagaa 900
129 gcagctaaat atgttcatgg cattgctgta catttggtacc tggactttct ggctccagcc 960
131 aaagccaccc taggggagac acaccgctg ttccccaaca ccatgctctt tgccctcagag 1020
133 gcctgtgtgg gctccaagtt ctgggagcag agtgtgcggc taggctcctg ggatcgaggg 1080
135 atgcagtaca gccacagcat catcacgaac ctctgtacc atgtggtcgg ctggaccgac 1140
137 tggaaacctt ccctgaaccc cgaaggagga cccaattggg tgcgtaactt tgcgacagt 1200
139 cccatcattg tagacatcac caaggacacg tttacaaaac agcccatgtt ctaccacctt 1260
141 ggccacttca gcaagttcat tcctgagggc tcccagagag tggggctggg tgccagtcag 1320
143 aagaacgacc tggacgcagt ggcactgatg catcccgatg gctctgctgt tgtggctgtg 1380
145 ctaaaccgct cctctaagga tgtgcctctt accatcaagg atcctgctgt gggcttctctg 1440
147 gagacaatct cacctggcta ctccattcac acctacctgt ggcacgcca g 1491
150 <210> SEQ ID NO: 8
151 <211> LENGTH: 497
152 <212> TYPE: PRT

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153 <213> ORGANISM: Homo sapiens
155 <400> SEQUENCE: 8
157 Ala Arg Pro Cys Ile Pro Lys Ser Phe Gly Tyr Ser Ser Val Val Cys
158 1 5 10 15
161 Val Cys Asn Ala Thr Tyr Cys Asp Ser Phe Asp Pro Pro Thr Phe Pro
162 20 25 30
165 Ala Leu Gly Thr Phe Ser Arg Tyr Glu Ser Thr Arg Ser Gly Arg Arg
166 35 40 45
169 Met Glu Leu Ser Met Gly Pro Ile Gln Ala Asn His Thr Gly Thr Gly
170 50 55 60
173 Leu Leu Leu Thr Leu Gln Pro Glu Gln Lys Phe Gln Lys Val Lys Gly
174 65 70 75 80
177 Phe Gly Gly Ala Met Thr Asp Ala Ala Ala Leu Asn Ile Leu Ala Leu
178 85 90 95
181 Ser Pro Pro Ala Gln Asn Leu Leu Leu Lys Ser Tyr Phe Ser Glu Glu
182 100 105 110
185 Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe
186 115 120 125
189 Ser Ile Arg Thr Tyr Thr Tyr Ala Asp Thr Pro Asp Asp Phe Gln Leu
190 130 135 140
193 His Asn Phe Ser Leu Pro Glu Glu Asp Thr Lys Leu Lys Ile Pro Leu
194 145 150 155 160
197 Ile His Arg Ala Leu Gln Leu Ala Gln Arg Pro Val Ser Leu Leu Ala
198 165 170 175
201 Ser Pro Trp Thr Ser Pro Thr Trp Leu Lys Thr Asn Gly Ala Val Asn
202 180 185 190
205 Gly Lys Gly Ser Leu Lys Gly Gln Pro Gly Asp Ile Tyr His Gln Thr
206 195 200 205
209 Trp Ala Arg Tyr Phe Val Lys Phe Leu Asp Ala Tyr Ala Glu His Lys
210 210 215 220
213 Leu Gln Phe Trp Ala Val Thr Ala Glu Asn Glu Pro Ser Ala Gly Leu
214 225 230 235 240
217 Leu Ser Gly Tyr Pro Phe Gln Cys Leu Gly Phe Thr Pro Glu His Gln
218 245 250 255
221 Arg Asp Phe Ile Ala Arg Asp Leu Gly Pro Thr Leu Ala Asn Ser Thr
222 260 265 270
225 His His Asn Val Arg Leu Leu Met Leu Asp Asp Gln Arg Leu Leu Leu
226 275 280 285
229 Pro His Trp Ala Lys Val Val Leu Thr Asp Pro Glu Ala Ala Lys Tyr
230 290 295 300
233 Val His Gly Ile Ala Val His Trp Tyr Leu Asp Phe Leu Ala Pro Ala
234 305 310 315 320
237 Lys Ala Thr Leu Gly Glu Thr His Arg Leu Phe Pro Asn Thr Met Leu
238 325 330 335
241 Phe Ala Ser Glu Ala Cys Val Gly Ser Lys Phe Trp Glu Gln Ser Val
242 340 345 350
245 Arg Leu Gly Ser Trp Asp Arg Gly Met Gln Tyr Ser His Ser Ile Ile
246 355 360 365
249 Thr Asn Leu Leu Tyr His Val Val Gly Trp Thr Asp Trp Asn Leu Ala

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250      370      375      380
253 Leu Asn Pro Glu Gly Gly Pro Asn Trp Val Arg Asn Phe Val Asp Ser
254 385      390      395      400
257 Pro Ile Ile Val Asp Ile Thr Lys Asp Thr Phe Tyr Lys Gln Pro Met
258      405      410      415
261 Phe Tyr His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln
262      420      425      430
265 Arg Val Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Ala
266      435      440      445
269 Leu Met His Pro Asp Gly Ser Ala Val Val Val Val Leu Asn Arg Ser
270      450      455      460
273 Ser Lys Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu
274 465      470      475      480
277 Glu Thr Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp His Arg
278      485      490      495
281 Gln
285 <210> SEQ ID NO: 9
286 <211> LENGTH: 338
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: CaMV 35S Promoter nucleic acid sequence
293 <400> SEQUENCE: 9
294 ttttcacaaa gggtaatatc gggaaacctc ctcggattcc attgccagc tatctgtcac      60
296 ttcatcgaaa ggacagtaga aaaggaaggt ggctcctaca aatgccatca ttgcgataaa      120
298 ggaaaggcta tcgttcaaga tgctcttacc gacagtggtc ccaaagatgg acccccaccc      180
300 acgaggaaca tcgtggaaaa agaagacgtt ccaaccacgt cttcaaagca agtggattga      240
302 tgtgatatct ccactgacgt aaaggatgac gcacaatccc actatccttc gcaagaccct      300
304 tcctctatat aaggaagttc atttcatttg gagaggac      338
307 <210> SEQ ID NO: 10
308 <211> LENGTH: 66
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: Nucleic acid sequence encoding the ER signal peptide
315 <400> SEQUENCE: 10
316 atgaagacta atctttttct ctttctcatc ttttcacttc tcctatcatt atcctcggcc      60
318 gaattc      66
321 <210> SEQ ID NO: 11
322 <211> LENGTH: 21
323 <212> TYPE: DNA
324 <213> ORGANISM: Artificial sequence
326 <220> FEATURE:
327 <223> OTHER INFORMATION: Nucleic acid sequence encoding the vacuolar targeting
sequence
329 <400> SEQUENCE: 11
330 gatcttttag tcgatactat g      21
333 <210> SEQ ID NO: 12
334 <211> LENGTH: 167
335 <212> TYPE: DNA

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336 <213> ORGANISM: Artificial sequence

338 <220> FEATURE:

339 <223> OTHER INFORMATION: Sequence for terminator

342 <220> FEATURE:

343 <221> NAME/KEY: misc_feature

344 <222> LOCATION: (162)..(162)

345 <223> OTHER INFORMATION: n is a, c, g, or t

347 <400> SEQUENCE: 12

348 taattttcatg atctgttttg ttgtattccc ttgcaatgca gggcctaggg ctatgaataa 60

350 agttaatgtg tgaatgtgtg aatgtgtgat tgtgacctga agggatcacg actataatcg 120

W--> 352 tttataataa acaaagactt tgtcccaaaa accccccccc cngcaga 167

355 <210> SEQ ID NO: 13

356 <211> LENGTH: 2186

357 <212> TYPE: DNA

358 <213> ORGANISM: Artificial sequence

360 <220> FEATURE:

361 <223> OTHER INFORMATION: Nucleic acid encoding recombinant GCD fused to signal peptides

364 <220> FEATURE:

365 <221> NAME/KEY: misc_feature

366 <222> LOCATION: (2181)..(2181)

367 <223> OTHER INFORMATION: n is a, c, g, or t

369 <400> SEQUENCE: 13

370 ttttcacaaa gggtaatatc gggaaacctc ctoggattcc attgcccagc tatctgtcac 60

372 ttcacgaaa ggacagtaga aaaggaaggt ggctcctaca aatgccatca ttgcgataaa 120

374 ggaaaggcta tcgttcaaga tgccctctacc gacagtgggc ccaaagatgg acccccaccc 180

376 acgaggaaca tcgtggaaaa agaagacgtt ccaaccacgt cttcaaagca agtggattga 240

378 tgtgatatct ccactgacgt aagggatgac gcacaatccc actatccttc gcaagaccct 300

380 tctctatat aaggaagttc atttcatttg gagaggacag gcttcttgag atccttcaac 360

382 aattaccaac aacaacaaac aacaacaaac attacaatta ctatttaca ttacagtcga 420

384 gggatccaag gagatataac aatgaagact aatcttttct tctttctcat cttttcactt 480

386 ctctctatcat tatcctcggc cgaattcgcc cgcccctgca tccctaaaag cttcggctac 540

388 agctcgggtg tgtgtgtctg caatgccaca tactgtgact ctttgacctt cccgaccttt 600

390 cctgcccttg gtaccttcag ccgctatgag agtacacgca gtgggcgacg gatggagctg 660

392 agtatggggc ccattccaggc taatcacacg ggcacaggcc tgctactgac cctgcagcca 720

394 gaacagaagt tccagaaagt gaagggattt ggaggggcca tgacagatgc tgetgctctc 780

396 aacatccttg ccctgtcacc ccctgcccac aatttgctac ttaaategta cttctctgaa 840

398 gaaggaatcg gatataacat catccgggta cccatggcca gctgtgactt ctccatccgc 900

400 acctacacct atgcagacac ccctgatgat ttccagttgc acaacttcag cctcccagag 960

402 gaagatacca agctcaagat acccctgatt caccgagccc tgcagttggc ccagcgtccc 1020

404 gtttcactcc ttgccagccc ctggacatca cccacttggc tcaagaccaa tggagcggtg 1080

406 aatgggaagg ggtcactcaa gggacagccc ggagacatct accaccagac ctggggccaga 1140

408 tactttgtga agttcctgga tgccctatgct gagcacaagt tacagttctg ggcagtgaca 1200

410 gctgaaaatg agccttctgc tgggctgttg agtgataacc ctttccagtg cctgggcttc 1260

412 acccctgaac atcagcgaga cttcattgcc cgtgacctag gtctaccct cgccaacagt 1320

414 actcaccaca atgtccgcct actcatgctg gatgaccaac gcttgctgct gcccactgg 1380

416 gcaaagggtg tactgacaga cccagaagac gctaaatatg ttcattggcat tgctgtacat 1440

418 tgggtacctg actttctggc tccagccaaa gccaccctag gggagacaca ccgcctgttc 1500

420 cccaacacca tgetctttgc ctcagaggcc tgtgtgggct ccaagttctg ggagcagagt 1560

422 gtgcggctag gctcctggga tcgagggatg cagtacagcc acagcatcat cacgaacctc 1620

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 10/25/2004

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Input Set : A:\27557 Sequence Listing.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:12; N Pos. 162 ✓

Seq#:13; N Pos. 2181 ✓

VERIFICATION SUMMARY

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Input Set : A:\27557 Sequence Listing.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:120

L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:2160